# SAFETY DATA SHEET

## SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT**

**Product Name:** **LUBRAKLEEN**
**Product Description:** Olefin Co-polymer Mixture and Additives
**Product ID:** 0002-X
**Intended Use:** Lubricant Supplement - Viscosity Modifier

**COMPANY IDENTIFICATION**

**Manufacturer:** **HYDROTEX PARTNERS, LTD.**
4912 S. 48th West Avenue
Tulsa, OK 74107 USA

| | |
|---|---|
| **Transportation Emergency Phone** | 800-424-9300 CHEMTREC |
| **Hydrotex Transportation No.** | 918-583-6224 |
| **SDS Requests** | 972-389-8500 |
| **Product Technical Information** | 800-527-9439 |
| **SDS Internet Address** | http://www.hydrotexlube.com |

## SECTION 2 HAZARDS IDENTIFICATION

**GHS Classification:**
Flammable Liquids – Category 3
Eye Irritation – Category 1

**GHS label elements**
**Symbol(s)**



**Signal Word**
**DANGER**

**Hazard Statements**
H226 Flammable liquid and vapor.
H318 Causes serious eye damage.

**Precautionary Statements**

| | |
|---|---|
| P210 | Keep away from heat/sparks/open flames/hot surfaces. No smoking. |
| P233 | Keep container tightly closed. |
| P240 | Ground/bond container and receiving equipment. |
| P241 | Use explosion-proof electrical/ventilating/lighting/…/equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P280 | Wear protective gloves/eye protection/face protection. |

**Response**

P305/P351/P338/P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P302/P353/P362 IF ON SKIN (or hair): Rinse skin with water/shower. Take off immediately all contaminated clothing.

P370/P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish.

**Storage**

P403/P235 Store in a well-ventilated place. Keep cool.

P404 Store in closed container.

**Disposal**

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**NOTE:** This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

## SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

**Reportable Hazardous Substance(s) or Complex Substance(s)**

| Name | CAS# | Concentration* |
|---|---|---|
| 2-methyl-1-propanol | 78-83-1 | 6.7 - 7.5% |
| Ethylbenzene | 100-41-4 | <20 ppm |
| Xylene | 1330-20-7 | <6 ppm |

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

## SECTION 4 FIRST AID MEASURES

**EYE CONTACT**

Flush thoroughly with large amounts of water for at least 15 minutes. Remove contact lenses, if present, after first 5 minutes of rinsing. Immediately call a POISON CENTER/doctor.

**SKIN CONTACT**

Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

**INHALATION**

Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

**INGESTION**

First aid is normally not required. Seek medical attention if discomfort occurs.

## SECTION 5 FIRE FIGHTING MEASURES

**EXTINGUISHING MEDIA**

**Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.

**Inappropriate Extinguishing Media:** Straight Streams of Water

**FIRE FIGHTING**

**Fire Fighting Instructions:** Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus (SCBA). Use water spray to cool fire exposed surfaces and to protect personnel.

**Hazardous Combustion Products:** Smoke, Fume, Aldehydes, Sulfur oxides, Oxides of carbon, Incomplete combustion products

**FLAMMABILITY PROPERTIES**

**Flash Point [Method]:** >29°C (85°F) [ASTM D-92]
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D
**Autoignition Temperature:** N/D

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks. The National Response Center can be reached at (800)424-8802.

**SPILL MANAGEMENT**

**Land Spill:** Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

**Water Spill:** Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

**ENVIRONMENTAL PRECAUTIONS**

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

## SECTION 7 HANDLING AND STORAGE

**HANDLING**

Avoid contact with used product. Prevent small spills and leakage to avoid slip hazard.
**Static Accumulator:** This material is a static accumulator.

**STORAGE**

Do not store in open or unlabeled containers.

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**EXPOSURE GUIDELINES:**

| | CAS# | OSHA PEL | ACGIH TLV | ACGIH STEL | NIOSH REL | NIOSH STEL | NIOSH IDLH | NOTES |
|---|---|---|---|---|---|---|---|---|
| 2-Methyl- 1-propanol | 78-83-1 | 100 ppm | 50 ppm | Not est. | 100 ppm | Not est. | 100 ppm | N/A |
| Xylene | 1330-20-7 | 100 ppm | 100 ppm | 150 ppm | 100 ppm | Not est. | Not est | n/a |
| Ethylbenzene | 100-41-4 | 20 ppm | 20 ppm | 125 ppm | | | 100 ppm | n/a |

**ENGINEERING CONTROLS**

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

**PERSONAL PROTECTION**

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

**Respiratory Protection:** If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable. Types of respirators to be considered for this material include:

No special requirements under ordinary conditions of use and with adequate ventilation.

For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapor warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

**Hand Protection:** Any specific glove information provided is based on published literature and glove manufacturer data. Work conditions can greatly affect glove durability; inspect and replace worn or damaged gloves. The types of gloves to be considered for this material include:

No protection is ordinarily required under normal conditions of use.

**Eye Protection:** If contact is likely, safety glasses with side shields are recommended.

**Skin and Body Protection:** Any specific clothing information provided is based on published literature or manufacturer data. The types of clothing to be considered for this material include:

No skin protection is ordinarily required under normal conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid skin contact.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

**ENVIRONMENTAL CONTROLS**

See Sections 6, 7, 12, 13.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.**

**GENERAL INFORMATION**

**Physical State:** Liquid
**Color:** Light Green
**Odor:** Characteristic
**Odor Threshold:** N/D

**IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION**

**Relative Density (at 15 C):** 0.861
**Flash Point [Method]:** >29°C (85 °F) [ ASTM D-92]
**Flammable Limits (Approximate volume % in air):** LEL: N/D UEL: N/D
**Autoignition Temperature:** N/D
**Boiling Point / Range:** N/D
**Vapor Density (Air = 1):** N/D
**Vapor Pressure:** < 0.013 kPa (0.1 mm Hg) at 20 C | < 0.1 kPa (0.75 mm Hg) at 20C
**Evaporation Rate (n-butyl acetate = 1):** N/D
**pH:** N/A
**Log Pow (n-Octanol/Water Partition Coefficient):** N/D
**Solubility in Water:** Negligible
**Viscosity:** 1150 cSt (65 mm2/sec) at 100 °C
**Oxidizing Properties:** See Sections 3, 15, 16.

**OTHER INFORMATION**

**Freezing Point:** N/D
**Melting Point:** N/A
**Pour Point:** -15°C (5 °F)
**DMSO Extract (mineral oil only), IP-346:** < 3 %wt

## SECTION 10 STABILITY AND REACTIVITY

**STABILITY:** Material is stable under normal conditions.

**CONDITIONS TO AVOID:** Excessive heat. High energy sources of ignition.

**MATERIALS TO AVOID:** Strong oxidizers

**HAZARDOUS DECOMPOSITION PRODUCTS:** Material does not decompose at ambient temperatures.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Information on toxicological effects**

**Acute toxicity**

**Xylene:**

| | | |
|---|---|---|
| **Dermal LD50:** | Rabbit | > 4,200 mg/kg |
| **Inhalation LC50:** | Rat | 21.7mg/l, 4 hours |
| **Oral LD50:** | Rat | 4,300mg/kg |

**Ethylbenzene:**

| | | |
|---|---|---|
| **Dermal LD50:** | Rabbit | 15,400 mg/kg |
| **Inhalation LC50:** | Rat | >2,180 mg/l, 4 hours |
| **Oral LD50:** | Rat | 3,500mg/kg |

**Serious eye damage/eye irritation:** Causes serious eye irritation

**Respiratory or skin sensitization:**

Respiratory sensitization: Not assigned
Skin sensitization: Not assigned

**Ingestion:** Harmful if swallowed

**The following ingredients are cited on the lists below:**

| Chemical | Listed By |
|---|---|
| Ethylbenzene | IARC |

--REGULATORY LISTS SEARCHED--

1 = NTP CARC
2 = NTP SUS
3 = IARC 1
4 = IARC 2A
5 = IARC 2B
6 = OSHA CARC

## SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.

**ECOTOXICITY**

Material -- Not expected to be harmful to aquatic organisms. The acute LC50 is >1000mg/L based on component data.

**MOBILITY**

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

Isobutanol component -- is not expected to hydrolyze in water due to the absence of hydrolysable groups. When release in the soil, this material will both evaporate and leach into ground water due to its relatively high vapor pressure and low absorption to the soil. In air isobutanol is removal by photochemical reaction.

**BIODEGRADATION**

At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data.

**BIOACCUMULATION**

Less than 1.0% of the components potentially bio-concentrate based on Octanol/water coefficients.

## SECTION 13 DISPOSAL CONSIDERATIONS

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

**DISPOSAL RECOMMENDATIONS**

Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at very high temperatures to prevent formation of undesirable combustion products.

**REGULATORY DISPOSAL INFORMATION**

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous

waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

**Empty Container Warning:** Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. DO NOT PRESSURISE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

## SECTION 14 TRANSPORT INFORMATION

**LAND (DOT)**

**UN Number**.....UN1993
**D.O.T. Shipping Name**.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
**Hazard Class & Division**....3
**Packing Group** ..... III
**Marine Pollutant**.....No

**LAND (TDG)**

**UN Number**.....UN1993
**Proper Shipping Name**.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
**Hazard Class & Division**.....3
**Packing Group**.....III
**Marine Pollutant**.....No
**Special Provisions**.....None

**SEA (IMDG)**

**UN Number**.....UN1993
**Proper Shipping Name**.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
**Hazard Class & Division**.....3
**EMS Number**..... F-E, S-E
**Packing Group**.....III
**Marine Pollutant**.....No
**Label(s)**..... 3

**AIR (IATA)**

**UN Number**.....UN1993
**Proper Shipping Name**.....Flammable Liquid, N.O.S., (2-Methyl-1-propanol)
**Hazard Class & Division**.....3
**Packing Group**.....III
**Marine Pollutant**.....No
**Label(s) / Mark(s)**.....3

The shipping information in this section is based on a bulk container. Please review the accompanying shipping papers for the correct shipping descriptions based the size of the package. Shipping descriptions may vary based on mode of transport, quantities, temperature of the material, package size, and/or origin and destination.

## SECTION 15 REGULATORY INFORMATION

**OSHA HAZARD COMMUNICATION STANDARD:** When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

**NATIONAL CHEMICAL INVENTORY LISTING:** IECSC, DSL, EINECS, PICCS, TSCA

**REGULATORY DISCLOSURES:**

| NAME | CAS# | % BY WEIGHT | Section 302 (EHS) TPQ | Section 304 EHS RQ | CERCLA RQ | Section 313 | RCRA CODE | CAA 112(r) TQ |
|---|---|---|---|---|---|---|---|---|
| 2-Methyl-1-propanol | 78-83-1 | 6.7 – 7.5 | | | 5,000 | | U140 | |
| Ethylbenzene | 100-41-4 | <.002% | | | 1,000 | Y | | |
| Xylene | 1330-20-7 | <.0006% | | | 100 | Y | U239 | |

**The following ingredients are cited on the lists below:**

| Chemical Name | CAS Number | List Citations |
|---|---|---|
| 2-Methyl-1-propanol | 78-83-1 | 1, 4, 12, 13, 14, 15, 16, 17, 18, 19 |
| Xylene | 1330-20-7 | 4, 12, 13, 14, 15, 16, 17, 18, 19 |
| Ethylbenzene | 100-41-4 | 4, 10, 12, 13, 14, 15, 16, 17, 18, 19 |

--REGULATORY LISTS SEARCHED--

| | | | |
|---|---|---|---|
| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1 | 7 = TSCA 5e | 12 = CA RTK | 17 = NJ RTK |
| 3 = ACGIH A2 | 8 = TSCA 6 | 13 = IL RTK | 18 = PA RTK |
| 4 = OSHA Z | 9 = TSCA 12b | 14 = LA RTK | 19 = RI RTK |
| 5 = TSCA 4 | 10 = CA P65 CARC | 15 = MI 293 | |

Code key: CARC=Carcinogen; REPRO=Reproductive

Cal. Prop. 65

**WARNING** This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects based on maximum impurity levels of components: <20 ppm Ethyl Benzene CAS no. 100-41-4. For more information go to: www.P65Warnings.ca.gov/petroleum.

## SECTION 16 OTHER INFORMATION

N/D = Not determined, N/A = Not applicable

**NFPA Hazard ID:** Health: 3 Flammability: 3 Reactivity: 1
**HMIS Hazard ID:** Health: 3 Flammability: 3 Reactivity: 1 PPE: D

**THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:** Revised Eye Irritation rating to Category 1, remove Skin Irritation rating, update HMIS and NFPA rating to Health Hazard 3 based on Eye Irritation Category 1, include more Prevention statements related to Flammability Category 3, corrected transport information.

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The information and recommendations contained herein are, to the best of Hydrotex Partners Ltd.'s knowledge and belief, accurate and reliable as of the date issued. You can contact Hydrotex Partners Ltd. to insure that this document is the most current available. The information and recommendations are offered for the user's consideration and examination. It is the user's responsibility to satisfy itself that the product is suitable for the intended use. If buyer repackages this product, it is the user's responsibility to insure proper health, safety and other necessary information is included with and/or on the container. Appropriate warnings and safe-handling procedures should be provided to handlers and users.